. 00098-66		· · · · · · · · · · · · · · · · · · ·	
CCESSION NR: AP5017466		/-	
SSOCIATION: Tsentralinyy na esearch Institute)	auchno-issledovatel skiy institut	(Central Scientific	-
UBMITTED: 09Jun62	ENCL: 00	SUB CODE: EE	
10 REF SOV: 006	OTHER: 00		
	· ···	e e e e e e e e e e e e e e e e e e e	
·			

KRASNOSHAPKA, MAKSIM MITROFANOVICH, doktor tekhn.nauk, prof.; SHERSTOBITOV, IVAN SERGEYEVICH, inzhener

Transfer coefficient of an inverted single-armature converter with singular splitting of the poles. Izv. vys. ucheb. zav.; elektromekh. 4 no.5:30-34 '61. (MIRA 14:7) (Electric current converters)

SHERSTOBITOV, I.V., inzh.

Scientific conference on the results of thermodynamic, technical, and economic studies of steam gas systems. Izv. vys. ucheb. zav.; energ. 7 no.3:118-119 Mr '64. (MIRA 17:4)

1. Saratovskiy politekhnicheskiy institut.

```
POPON A.I., Prainty PHESE-TOBITOW, L.W., inth.

Conference of the readers of our periodical. lzw. vys. uchek.
zsw.; energ. 7 no.10x119-121 0 '64. (MIFA 17:12)

1. Saratovskiy politekhnicheskiy institut.
```

L 08061-67 EWT(1)/EWP(m) ACC NR: ATT001675 SOURCE CODE: UR/0143/66/000/008/0047/0052 AUTHOR: Andryushchenko, A. I. (Doctor of technical sciences; Professor); Shorstobitov I. V. (Engineer) CRG: Saratov Politochnical Institute (Saratovskiy politekhnicheskiy institut) Flow of a viscous thermally and electrically conductive gas in a magnetic field SCURCE: IVUZ. Energetika, no. 8, 1966, 47-52 TOPIC TAGS: constant magnetic field, electric conductivity, ideal gas ABSTRACT: An analysis of the flow of a viscous, thormally conductive ideal gas with considerable electrical conductivity in a magnetic field. The flow of the gas takes place in a channel with constant longitudinal velocity in a constant induction magnetic field. The method presented allows preliminary calculation of the basic characteristics of the flow of an actual electrically conductive gas in a magnetic field (pressure, density and temperature of gas, section of channel and length) in consideration of friction and of cooling. When the gas flows with a constant velocity through a channel with an unchanged magnetic gap, the effectiveness of interaction of the gas with a magnetic field is sharply reduced with length (load coefficient for the initial data accepted over the length of the channel X=9 meters reduced by a factor of three). Orig. art. has: 3 figures and 24 formulas. [JPRS: 38,490] SUB CODE: 20 / SUBM DATE: 08Jun66 / ORIG REF: 005 UDC: 621.180+621.44

ORLOV, V.I.; YESIN, O.A.; SHURYGIN, P.M.; SHERSTOBITOV, M.A.

Investigation of processes in the interaction of chromium oxide with silicon, manganese and iron by the electromotive force method. Izv.vys.ucheb.zav.; chern.met. 4 no.5:28-36 161. (MIRA 14:6)

1. Ural'skiy politekhnicheskiy institut.
(Chromium alloys—Electrometallurgy) (Electromotive force)

EWP(e)/EWT(m)/EWP(t)/EWP(k)/EWP(z)/EWP(b) L 64552-65

ACCESSION NR: AP5020770

UR/0226/65/000/008/0050/0054

AUTHOR: Sherstobitov, M. A.; Popel', S. I.; Tsarevskiy, B. V.

TITLE: Method of determining the rate of penetration of melts into capillary

porous materials

porous materials SOURCE: Poroshkovaya metallurgiya, no. 8, 1965, 50-54

TOPIC TAGS: liquid metal, foam metal, electric conductivity, electric resistance, electrodynamics, iron oxide, silicon dioxide, magnesium

ABSTRACT: The method consists in continuous determination of the level of the melt in the sample by measurement of the electrical resistance. It is applicable to systems in which the electrical conductivity of the impregnated body is substantially different from that of the starting body. A study was made of the movement of melts of FeO-SiO2-Fe2O3 into pressed samples made of powders of fused. magnesium at 1220-1420 C. The movement was measured with an automatic Nelectrical potentiometer. The samples were cylindrical with a diameter of 20 mm and a height of 40-50 mm, pressed from a moist (7% water) mixture of pulverized

Card 1/2

L 64552-65

ACCESSION NR: AP5020770

fused magnesium of known particle size and refractory clay (9%). Porosity of the samples was 37.5-38.5% and was practically identical over the length. The percentage of open pores exceeded 99%. Simultaneous temperature measurements were made with platinum-platinum rhodium thermocouples. Results showed that the depth of penetration increases with time according to the parabolic curve 12= K γ , where 1 is the length of the sample and K is the penetration constant which increases with a decrease in the proportion of silicon dioxide and with a rise in temperature. Orig. art. has: 4 formulas, 2 figures.

ASSOCIATION: Urall skiy politekhnicheskiyinstitut S. M. Kirova (Ural Polytechnic

Institute)

SUBMITTED: 30Jun64

ENCL: 00

SUB CODE: MM

NR REF SOV: 008

OTHER: 004

CMERGY - description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

Electron description of once building in a layer of a sinter

ACC NR: NEW 35+12 SOURCE CODE: UN/0137/65/000/409/4011/A011

AUTHOR: Popel', S. I.; Sherstobitov, M. A.; Tsarevskiy, B. V.

TITLE: Determination of the speed of penetration of molten oxides in capillary-porous materials

SOURCE: Ref. zh. Metallurgiya, Abs. 9A70

MEF. SOURCE: Sb. Poverkhnostn. yavleniya v rasplavakh i voznikayushchikh iz nikh tverd. fazakh. Hal'chik, 1965, 550-557

TOPIC TAGG: Forosity, metal surface impregnation, powder metallurgy, refractory oxide

ABSTRACT: The authors determined the rate of impregnation of pressed samples of powders of fused magnesium by iron-silicate melts at 1220 -- 1420°. For the investigated compositions, the height ℓ of the impregnated part grew with time parabolically, like $\ell^2 = k\tau$, where k is a constant. It is established that k decreases with increasing fraction of SiO in the melt and increases exponentially with increasing temperature. As the grain dimension increases from 0.10 to 0.60 mm, the value of k increases at 1345° from 0.31 to 1.28 cm²/sec. The influence of the temperature on the rate of impregnation is due to the change in the viscosity and the contact angle. 3 illustrations. Bibliography, 15 titles. D. Kashayeva. [Translation of abstract]

SUB CODE: 20, 11

Card 1/1

UDC: 669.046.587:666.764.1

DOING TO CONCRETE TESTS SOME DESIGNATION OF STREET SOME STATE OF S

KRIVORUCHENKO, I.V.; UGOLEV, A.M.; SHERSTOBITOV, O.Ye.

Effect of total removal of the duodenum on blood lipids. Dokl. AN SSSR 149 no.5:1225-1228 Ap 163. (MIRA 16:5)

1. Institut fiziologii im. I.P.Pavlova AN SSSR. Predstavleno akademikom V.N.Chernigovskim.
(DUODENUM) (LIPID METABOLISM)

是,1976年,1978年

SHERSTOBITOV, P.; BOGOMOLOVA, M.

Food control. Obshchestv.pit. no.12:48 D '58. (MIRA 11:12)

1. Direktor TSentral'noy sanitarno-pishchevoy stantsii g.Moskvy (for Sherstobitov). 2. Zaveduyushchiy sanitarno-pishchevoy laboratoriyey Leninskogo rayona g.Moskvy (for Bogomolova).

(Food adulteration and inspection)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

是这种的种种,这种是一种的一种,我们就是这种的人,这种是一种的人,我们就是一种的人,不是一种的人,但是一种的人,我们们也是一种的人,我们们就是一种的人,我们们们

CHYYMYLOVA, B.; SHERSTOBITOV, V.P., red.; BUTENKO, N.P., red.izd-va; ANOKHINA, M.G., tekhn.red.

[Workers of Kirghizistan in the struggle to fulfill the second five-year plan for industry and transportation, 1933-1937]
Trudiashchiesia Kirgizii v bor'be za vypolnenie vtoroi piatiletki v oblasti promyshlennosti i transporta, 1933-1937. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, 1959. 56 p. (MIRA 13:7)

(Kirghizistan-Industries)

(Kirghizistan-Transportation)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

SHERSTOBITOV, Viktor Pavlovich; OROZALIYEV, K.K., kand. ist. nauk, red.

[The New Economic Policy in Kirghizistan, 1921-1925] Novaia ekonomicheskaia politika v Kirgizii (1921-1925). Frunze, Ilim, 1964. 610 p. (MIRA 17:12)

CRISHKOV, Ivan Grigor'yevich; SHERSTOBITOV, V.F., otv. red.

[Electrification of Soviet Kirghizistan; an historical essay] Elektrifikatsiia Sovetskogo Kirgizstana; istoricheskii ocherk . Frunze, "Ilim," 1965. 120 p. (MIRA 18:12)

Conference on the mechanization of work of engineers and technicians. Mashinostroitel' no.12:43 D'61.

(MIRA 14:12)

(Office equipment and supplies)

SHERSTOBITOVA, M.; FOLUEKTOV, N.; ANPILOGOVA, Yu.; YAKUSHINA, O.;
ORLOVSKAYA, R.

More on veterinary control. Mias. ind. SSSR 29 no.2:20 '58.
(MIRA 11:5)

1. Barnaul'skiy myasokombinat.
(Meat inspection)

```
多生于1974年17日中国主席中央的企业,1914年11日中国,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,1914年11日,
F1-EU 15114
                             MATUSIS, Z.Ye.; SHERSTOBITOVA, V.V.
                                                                                  There was no transfer of the Transfer of the transfer
                                                     Changes in the phagocytic activity of leukocytes in human blood
                                                     during anesthesia. Biul.eksp.biol. i med. 43 no.1 supplement:36+38
                                                     157.
                                                     1. Iz bakteriologicheskoy laboratorii (zav. - starshiy nauchnyy
                                                     sotrudnik Z.Ye. Matusis) Gor'kovskogo instituta vosstanovitel'noy
                                                    khirurgii, travmatologii i ortopedii (dir. - dotsent M.G.Grigor'yev)
                                                    Predstavlena deystvitel nym chlenom AMN SSSR V.N.Chernigovskim.
                                                                            (ANESTHESIA, off.
                                                                                         on phagocytic activity of leukocytes)
                                                                            ( LEUKOCYTES
                                                                                         phagocytic activity, eff. of anesth.)
                                                                            (PHAGOCYTOSIS
                                                                                         eff. of anesth. on phagocytic activity of leukocytes)
```

sov/142-58-5-20/23

6(6) AUTHOR:

Sherstoboyev A.A., Engineer

TITLE:

Chronicle. A conference on Problems of Using Television in the

National Economy

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - radiotekhnika, 1958, Nr 5,

pp 626-629 (USSR)

ABSTRACT:

A scientific-technical conference convened in Leningrad on April 3 and 4, 1958. The session heard the following reports: V.I. Sardyko, on the television indurstry and the prospects of its development in the Soviet Union; A.M. Shpalenskiy, B.F. Barshteyn and V.S. Polonik on serial production of television sets; B.I. Makarevich on the use of television for contactless measuring of forged pieces during the forging process; A.G. Kondratiyev on the use of television in the national economy. At the conference several tel-

evision sets were demonstrated. There are 6 figures.

Card 1/1

SUBMITTED:

April 10, 1958

The Jubilee Scientific-Technological Conference at the Leningrad Electrical Engineering Institute imeni V.I. Ul'yanov (Lenin)

Radio Electronics". - Doctor of Geological and Mineralogical Sciences, Professor A.G. Grammakov made a speech on "The Activity of Aleksandr Stepanovich Popov as a Professor of Physics at the Electrical Engineering Institute", Ye.A. Popova-K'yandskaya, A.S. Popov's daughter and director of the memorial museum of pov's daughter and director of the Memorial museum of A.S. Popov at LETI made a speech on "Aleksandr Stepanovich Popov - the First Elected Director of the Electorical Engineering Institute". - The Merited Worker of Science and Engineering of the RSFSR, Laureate of the Science and Engineering of the RSFSR, Laureate of the Stalin Award, Doctor of Technical Sciences, Professor B.P. Kozyrev read the paper "The Ultimate Sensitivity of Radiation Receivers at Low Temperatures". - An ty of Radiation Receivers at Low Temperatures". - An exhibition of printed scientific works of the workers of the Electrical Engineering Institute was shown in the conference hall. - Doctor of Technical Sciences, Professor S.E. Khaykin's paper was titled "Radio Asprofessor S.E. Khay

Card 2/4

06370 SOV/142-2-4-23/26

The Jubilee Scientific-Technological Conference at the Leningrad Electrical Engineering Institute imeni V.I. Ul'yanov (Lenin)

of Analysis and Synthesis of Controlling Mathematical Machines",

SUBMITTED: April 20, 1959

Card 4/4

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

06371 9 (2)

SOV/142-2-4-24/26

AUTHOR: Sherstoboyev, A.A., Engineer

TITLE: A Conference on the Theory and Practice of Transistor

Application

PERICDICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika.

1959, Vol 2, Nr 4, pp 501-502 (USSR)

ABSTRACT: A scientific conference on the theory and practice of

transistor application was held in Leningrad from April 6 to 10, 1950. The conference was organized by the Leningradskoye pravleniye NTORiE imeni A.S. Popova (Leningrad Directorate of NTORiE imeni A.S. Popov). LKVVIA imeni A.F. Mozhayskiy and by the Tsentral'noye byuro tekhnicheskoy informatsii Lensovnarkhoza (Central Bureau of Technical Information of the Lensovnarkhoz).

A.A. Ignat yev discussed electrical and operational characteristics of new transistor types, the technological pecularities in their manufacture, technical

specifications, ultimate values of basic parameters Card 1/8

and operating conditions of these transistors. -

A Conference on the Theory and Practice of Transistor Application

thod of bridge measurements with considerably shorter calculations. - In L.S. Berman's report "Approximated Methods of Calculating Transient Processes in Transistors with Strong Signals", the general case was discussed, when the e.m.f. of the input oscillator and its resistance are given. - Yu.K. Barsukov reported on "The Transient Blocking Process in Junction Diodes at High Currents". The investigation was conducted on DG-Ts diodes at currents of 13 amps (about 1000 amps/cm²). N.S. Nikolayenko read two reports, "The Energy Analysis of Multi-Stage Transistor Amplifiers" and "A Transistor Amplifier for Automatic Measuring Instruments". In the first report, he suggested an analysis method of great accuracy by which any transistorized amplifier circuit may be checked. It provides also a direction for the synthesis of an amplifier and may be used for accounting the introduction of additional elements into a circuit. - G.N. Novopashennyy, a worker of LPI imeni M.I. Kalinin, read the paper "Transistorized Am-

Card 3/8

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

。 1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1

> 06371 SOV/142-2-4-24/26

A Conference on the Theory and Practice of Transistor Application

plifiers for Investigating Rapidly Changing Displacements and Accelerations". He discussed equipment working on piezoelectric transducers with an oscilloscope. It includes a preamplifier with a high impedance, voltage amplifiers, integrating amplifiers and power amplifiers. - G.P. Sherov-Ignat'yev discussed "The Therman Balancing of Transistorized Videoamplifiers" and presented a method of using drift transistors for building transistorized videoamplifiers with thermal balancing. - A.P. Molchanov, A.M. Utkin, B.N. Murav'yev dealt with some problems of building transistorized frequency-selective amplifiers. V.S. Protasov read the report "The Frequency Stability of Transistorized Self-Oscillators". - T.D. Gavra reported on "Transistorized Quartz Self-Oscillators". He explained experimental investigations of the frequency stability of different quartz oscillator circuits built with new transistor types in the frequency range of up to 40 Mc and at temperatures of up to +70°C. - R.T. Safarov and R.I.

Card 4/8

中一人人名 证证证 写了一个世界的话文化的话题的话题的话题的话题的话题的话题的话题的话题,这种情况

A Conference on the Theory and Practice of Transistor Application

Zverev reported on control devices composed of transistors and ferrites. The authors discussed general properties of some control devices, designed for performing the frequency modulation of the automatic frequency control of oscillators. They presented the results of an experimental investigation of control elements composed of semiconductro diodes and transistors, and also of ferrovariometers in the frequency range of 5-20 Mc. - The application of transistors in wire communication was the subject of the reports of V.M. Volshonok "Electrical Transistorized Units of Facsimile Devices", M.M. Matveyev "Transistorized Equipment for Automatic Telephone Exchanges", and V.V. Shtager "The Use of Transistorized Equipment for Building Small Electronic Automatic Telephone Exchanges", - T.M. Agakhanyan, M.S. Bedova, L.N. Patrikeyev reported on "Transistorized Adders for High-Speed Computers". They discussed three parallel adder versions and two serial adder versions, designed for adding and subtracting bi-

Card 5/8

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

A Conference on the Theory and Practice of Transistor Application

nary numbers. - O.P. Baranov read the report "Transistorized Oxillators Producing Relaxation Oscillations". The calculation method presented by the author is clear and simple but provides sufficient accuracy for practical purposes. - G.N. Slavskiy and A.M. Gribankina reported on "An Investigation of Transistorized Relaxation Circuits". They investigated transistorized relaxation circuits, multivibrators, kipp relays. In his report "Transient Processes in Simple Key Circuits", S.Ya Shats presented approximated expressions for the switching duration, which is to be determined by a frequency dependence. The specific influence of transient capacitances on the pulse shape was considered. - "A Transistorized Frequency Divider With a Variable Division Factor" was the topic of N.K. Igolkin's report. - V.I. Lebedev, Yu.A. Kamenetskiy read their paper on "Restoring the Direct Component of a Pulse Voltage in Transistorized Elements". They explained the depences of semiconductor parameters on the

Card 6/8

A Conference on the Theory and Practice of Transistor Application

frequency characteristics. - V.I. Shpenik's report had the title "Semiconductor Parametric and Balancing Voltage Stabilizers". - V.I. Stafeyev submitted two reports "The Unbalanced Conductivity Parameter Modulation as a New Principle of Functioning of Semiconductor Devices" and "Magnetic Diodes". The author showed the possibility of creating new types of semiconductor devices, based on the action on an unbalanced carrier concentration. The theoretical conclusions were confirmed experimentally. - G.N. Slavskiy and L.N. Arkhipets reported on "A Transistorized, Wideband, Active, Low-Frequency RC Filter", - L.Ya Shapiro and A.S. Fedorov discussed "A Wideband Vectormeter for the Frequency Range of 10 kc to 20 Mc". They explained a device for direct combined measurements of modulus and phase of the complex voltage transmission factor of active and passive two-terminal pair networks. The frequency vectormeter range is $10~\rm kc$ to 20 Mc. The modulus measurement range is $0-\frac{1}{2}~80~\rm db$, the phase mea-

Card 7/8

A Conference on the Theory and Practice of Transistor Application

suring range is 0-360°C, the accuracy is not below ± 5%. The results of the effort in developing and practical application of transistors was reviewed in the decisions of the conference. The conference showed new ways and directions for a large-scale introduction of semiconductro engineering in all principal branches

SUBMITTED: April 20, 1959

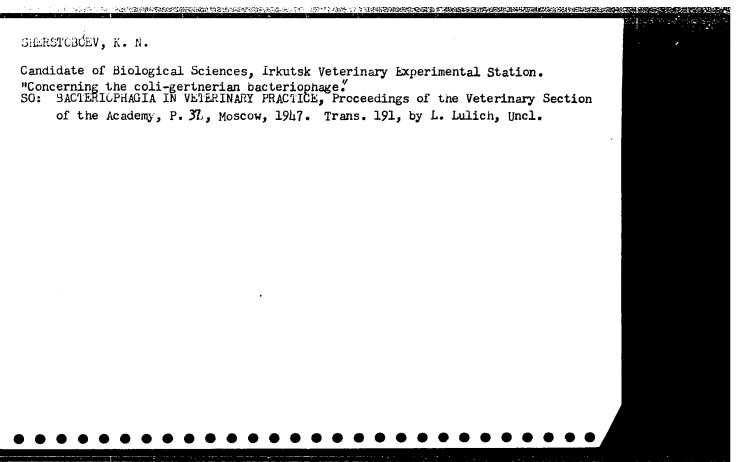
Card 8/8

SHERSTOBOYEV, K. N. and MAKLIN, R. I. (Irkutsk Scientific Research Veterinar;

Experimental Station). Prophylaxis of paratyphous abortion in mare; with basteriophage

So: "eterinariya; 23; 5-6; May/June 1946; Uncl.

TABOON



SHEATTCACLY, T. M.; CAKIE, R. I.

"Aujeznky's diamase."

SC: Veterinariia 25(12), 1948, p. 19

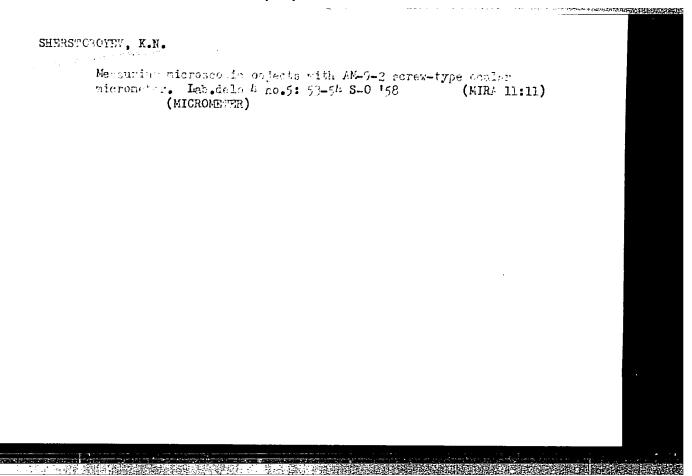
* from same source, in 1948 Letopis' Zhurnal'nykh State, No. 47, item 42544, which is identical.

Aladar Aujezzky (contemporary Hungarian physician) disease, pseudohydrophobia; pseudorabies; an infectious (virus) bulbar paralysis of cattle, horses and other domestic animals, first observed in Hungary and Brazil, where it is called the "scratching pest." (Amer. Illustrated Med. Dictionary - Dorland, pp 166; 437 mr.

SHERSTOBOYEV, K.N.

Characteristics of variability of sporogenous micro-organisms. Mikrobiol. zhur. 17 no.3:46-54 '55 (MIRA 10:5)

1. Z Bilotserkivs'kogo sil's'kogospodars'kogo institutu (BACTERIA, sporogenous, variability, review) (Uk)



SHERSTOBOYEV, K.N.

A new strain of bacilli forming mobile colonies, Bacillus coloniomo bile [with summary in English]. Mikrobiologiia 27 no.5:641-645 S-0 '58 (MIRA 11:12)

1. Belotserkovskiy sel'skokhozyaystvennyy institut.
(BACILIUS,
coloniomobile (Rus))

SHERSTOBOYEV, K.II.

Movement of bacterial colonies. Mikrobiologiia 30 no.1:91-98 Ja-F '61. (MIRA 14:5)

1. Belotserkovskiy sel'skokhozyaystvennyy institut. (BACILLUS COLONIONIOBILE)

SHERGTOBOYEV, K.N.

Fractionation of spores by centrifugation. Mikrobiologiia 30 no.6: 1070-1074 N-D *61. (MIRA 14:12)

1. Sel'skokhezyaystvennyy institut Belaya TSerkov'. (BACTERIOLOGY—TECHNIQUE)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

SOV/119-58-10-1/19 . CRS: Freytsis, I. D., Engineer, Sherstoboyev, M.W., Engineer Automatic Station for a Many-Point Temperature Control · : 1111: (..vtomaticheskaya stantsiya mnogotochechnogo regulirovaniya temperatury) : UMIODICAL: Friborostroyeniye, 1958, Nr 10, pp 1-5 (USSR) The following works where automatic temperature control is STRACT: used are mentioned (works located in Leningrad): "Elektrosila" factory imeni Kirov with 48 transmitters Radioworks imeni "Kozitskiy" with 72 transmitters Plastics factory imeni "Komsomol'skaya :ravda" with 300 transmitters Shoe factory "Skorokhod" with 120 transmitters. The plant at the "Skorokhod" is a telemechanical apparatus with valve controlled elements; it performs the following operations: 1) Temperature control of a maximum of 150 transmitters. 2) Automatic temperature control: In the case of cooling as スコミ 1/3 well as in the case of an overheating the place of deviation

SOV/119-53-10-1/12

Nowatic Station for a Many-Point Temperature Control

must be located by signals.

- 3) Automatic control and signalling from all transmitters.
- 4) Optional temperature measurement operated by telephone dialling to any automatic transmitter station.
- Graphical representation of the temperature for any transmitter at any time.
- 6) Pre-sat control of temperature as a function of time for any object by means of a special supplementary apparatus. The electrical block scheme of the station can be livided into the following sections:
- a) Scinning device.
- b) Heasurement scheme with valve amplifier and control unit.
- c) Automatic control.
- d) Desk for remote measurement and recording of temperature.
- e) Pre-set control.

The electric circuit diagram of the scanning device and that of the measuring scheme of the station are given. The way of operation of their individual parts is partly described. The desk for remote control, the control blocks and the commutators are shown by photographs. It turned out that the plant needs a minimum of service. The works electrician is employed at several stations for operating such a unit.

Sur 1 2/3

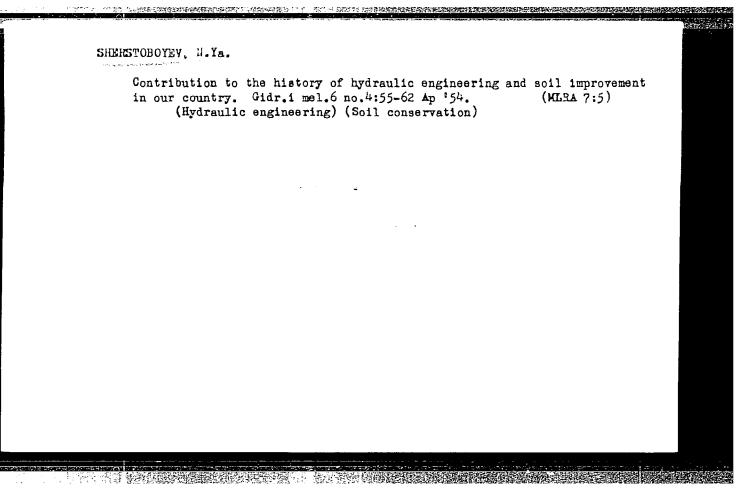
SOV/119-58-10-1/19

Automatic Station for a Many-Point Temperature Control

One pickup transmitter costs about 300 Roubles. The employment of a 72-transmitter station in the "Kauchuk" factory saved 100 000 Roubles in one year. There are 5 figures.

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"



99-7-12/-4

SUBJECT:

USSR/Melioration

AUTHOR:

Sherstoboyev, N.L., Candidate of Mechanical Sciences.

TITLE:

"Problems of Hydrotechnical and Meliorative Engineering of Leningrad in the Past" (250th Anniversary of Leningrad)

(Iz gidrotekhnicheskogo i meliorativnogo proshlogo Leningrada)

(k 250-letiyu Leningrada)

PERIODICAL:

"Gidrotekhnika i Melioratsiya", 1957, # 7, pp 48-57, (USSR)

ABSTRACT:

The first drainage projects of the Leningrad area were started by Peter the Great, when the Peterhof, Gatchina and Oranienbaum districts were reclaimed. During the government of Peter the Great, Hydro-Engineer Skornyakov-Pisarev prepared plans for the construction of the Ladoga Canal and Kopchmin prepared plans for the building of the Neva-Volga Canal. During the Peter the Great's epoch the following Russians became well-known for their achievements in the field of hydraulic engineering: Zemtsov, Hannibal, Lomonosov. With the advent of Communism, however, drainage projects covering thousands of hectares were carried out. In the Leningrad district, for example, are 8 machine-melioration stations with 44 machine-tractor detach-

Card 1/2

SHESTOBOYEV, M.Ya., kand.tekhn.nauk

From the remote past of hydraulic engineering in the U.S.S.R.

Gidr. i mel. 12 no.9:42-48 S '60. (MIRA 13:9)

(Hydraulic engineering)

SHEISTUROYEV, H.Ya. kand.tekhn.nauk (Loningrad)

History of the subsurface drainage in the U.S.S.R. Gidr.i mel.
14 no.3:46-54 Mr :62. (MIMA 15:4)

(Drainage)

SHERSTOBOYEV, N.Ya., kand.tekhn.nauk (Leningrad)

History of soil draining with closed drainage in the U.S.S.R.
(conclusion). Gidr. i mel. 14 no.4:47-56 Ap '62. (MIRA 15:5)
(Drainage)

- 1. SHEEGTOECTEV, V. L.; BOYARTHIMOVA, 2. YA.
- 9. ggsk (600)
- L. Ilimsk Vcivedeship Agriculture
- 7. Books about the Russian settlement of Siberia, ("Arable land of Ilimsk", V. M. Sherstohoyev; "The population of the Tomsk District in the first half of the 17th century", A. Ya. Boyarshinova, reviewed by S. A. Tekarev), Sev. etn., no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

到的种位分类的现在分类和对象的对象,可以可以是不是企业的一个。 对于"4" 公司 15 的复数对**代码的对象的对象的对象的对象的对象的对象的对象的对象的对象的对象的**

SHERSTOBOYEV, Vadim Nikolayevich; SHOTSKIY, Vladimir Porfir yevich; KROTOV, V.A., red.; STRILEVA, G.F., red.; SOROKINA, T.I., tekhn.red.

[Agricultural regions of Irkutsk Province; materials on the agricultural regionalization of Irkutsk Province] Sel'sko-khoziaistvennye raiony Irkutskoi oblasti; materialy po sel'skokhoziaistvennomu raionirovaniiu Irkutskoi oblasti. Irkutsk, Irkutskoe knizhnoe izd-vo. No.2. 1958. 75 p. (MIRA 14:4)

(Irkutsk Province--Agricultural geography)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

KOMAROVSKAYA, Vera Pavlovna; SHERSTOBOYEV, V.N., prof., red.; STRILEVA, G., red.; YURGANOVA, M., tekhn. red.

[Agricultural development and specialization in the Angara-Ilim subzone of Irkutsk Province; materials on the agricultural zoning of Irkutsk Province] Razvitie i spetsializatsiia sel'skogo khoziaistva Angaro-Ilimskoi podzony Irkutskoi oblasti; materialy posel'skokhoziaistvennomu raionirovaniiu Irkutskoi oblasti. Pod red. V.N.Sherstoboeva. Chita, Akad.nauk SSSR. No.3. 1958. 164 p. (MIRA 14:6)

(Irkutsk Province-Agriculture)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

SHERSTGROYEV, Y. H.

Systems of field crop cultivation in Irkutsk Province. Trudy Vost.Sib. fil. AN SSSR no.29:47-54 '59. (MIRA 13:9)

(Irkutsk Province--Field crops)

USSR/Diseases of Farm Animals - Diseases of Unknown Etiology.

R-3

THE CONTRACTOR OF THE PROPERTY OF THE PROPERTY

: Ref Zhur - Biol., No 4, 1958, 16949 Abs Jour

: Sherstoboyeva, M.A., Ivanova, L.I. Author

Inst : Belaya Tserkov Agricultural Institute.

Title : Study of the Mineral Composition of Bones in Infectious

Rhinitis of Swine.

: Nauchn. zap. Belotserkovsk. s.-kh. in-t, 1957, 6, 125-131 Orig Pub

: The chemical composition of the masal bones of 3 healthy Abstract

pigs, and II pigs affected with infectious rhinitis (IR) was studied. It was found that in IR a considerable decrease of the Ca content in the bones, a slight increase of P, and a decrease of MG occurs. These changes become more marked with the development of the disease.

No changes of Al and Fe were observed. -- Ye. M. Berkovich.

Card 1/1

The Influence of Inhomogeneities on the Dark and Photochemical Decomposition of the Permanganate-Ion

78-3-5-5/39

accelerates the decomposition of MnO₄ ions, as well in darkness as in light. A photochemical reduction of the permanganate ion proceeds under the influence of photons. There are 6 figures and 10 references, 1 of which is Soviet.

ASSOCIATION:

Belotserkovskiy seliskokhozyaystvennyy institut

(Belaya Tserkov' Agricultural Institute)

SUBMITTED:

May 22, 1957

AVAILABLE:

Library of Congress

1. Permengenate ions--lecomposition--Effects of light 2. Permengenate ions--Decomposition--Test results

Card 2/2

17(1) AUTHORS:

Kachan, A. A., Sherstoboyeva, M. A.

507/20-124-3-61/67

TITLE:

Effect of Light on the Electroconductivity of Potato Leaves (Deystviye sveta na elektroprovodnost' list'yev kartofelya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 3, pp 707-710 (USSR)

ABSTRACT:

The illumination of the filamentous alga Clodophora and of the unicellular alga Chlorella with an electric bulb reduced the electroconductivity of the system. It increased again with subsequent darkening (Ref 1). This fact mainly reflects the change in the ion concentration of the culture solution: during illumination, the algae absorb ions from the solution, after the switching-off of the light, part of the ions from the cells are returned into the solution. In view of several important conclusions arrived at by L. G. Yaglova (Ref 1), the authors considered it an interesting task to obtain direct test results on the nature of the change of the conductivity of the green plant parts both during illumination and immediately after the switching-off of the light. The electroconductivity was measured in an electrode cell (Fig 1). Newly picked potato and Echeveria leaves were washed in aqua destillata and dried. A 500 watt projector bulb served as a light source. The light was directed onto the cell by means of a large condenser. Infrared rays

Card 1/3

中国的自己是在1912年经历的大学,1914年经历的主义。1914年,1914年1917年,1915年1918年发现了1914年发现的1914年1918年1914年1914年1917年1917年1917年1917年191

Effect of Light on the Electroconductivity of Potato Leaves SOV/20-124-3-61/67

were absorbed through a filter from a ${\tt CuSO}_4$ solution. Figure 2 shows the changes in the specific conductivities in an old (1) and a young (2) potato leaf. During the first few seconds of illumination the electroconductivity of the leaf rises rapidly. Then it ceases to increase and remains constant. After the switching-off of light the conductivity decreases. The chlorophyll-free subsoil vegetables (beetroot and carrots) show no changes in conductivity. Typical ferment toxins (Ref 5) that are directly related with photosynthesis (hydroxylamine hydrochloride, o-phenanthroline, copper sulfate) suppress the change effect of the conductivity (Fig 3). Thus the considerable role played by ferments in the photosynthesis of the potato leaf can be demonstrated. Figure 4 presents the results of control tests with Echeveria leaves. It can be considered a proven fact that light, during the first few seconds after its action, is the chief factor responsible for the rise in the electroconductivity of the potato leaves. L. G. Yaglova (Ref 1), however, could not notice this fact in her experiments. Further studies of the effect of light on the leaves of various plants may be of importance, not only for theory but also for practical application. There are 4 figures and 5 references, 2 of which are Soviet.

Card 2/3

Effect of Light on the Electroconductivity of Potato Leaves SOV/20-124-3-61/67

ASSOCIATION: Belotserkovskiy sel'skokhozyaystvennyy institut

(Belaya Tserkov' Agricultural Institute)

PRESENTED: September 24, 1958, by A. L. Kursanov, Academician

SUBMITTED: May 8, 1958

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

S/073/63/029/001/008/009 A057/A126

APTHORS:

No. 1 skly, L.A., kachan, A.A., Sherstoboyeva, M.A., Timoshenko, T.K.

TITLE:

The catalytic activity of silver water upon the oxidation of indigo-

PEGGEORGAL: Ukrainskiy khimicheskiy shurmal, v. 29, no. 1, 1963, 106 - 103

TEXT: The peroxidaze activity of silver water (Agw) which is known as a strong bactericide was investigated at the Institut obshchey i neorganicheskoy khimii AN USSR, Belotserkovskiy institut (Institute of General and Inorganic Chemistry AS UkrSSR, Belotserkov Institute) using as a model the reaction between H202 and indigocarmine (IC). The peroxidaze activity of Agw was compared with the activity of silver ions, and solutions containing dispersed silver, Ag₂O and AgC1. The effect of casein was also studied. The experiments were carried out with 5 \cdot 10⁻⁴ M IC solutions at pH \sim 5.9, and the reaction was controlled by measuring the optical density (605 m μ) of the solution. It was observed, in agreement with literature data, that the reaction of IC decolorization with H2O2 occurs by the first order in relation to IC. The obtained values of the reaction

SERECTORITON, lvan Sergeyrvich, kand.tekhn.mauk, starshly nauchnyy sotrudnik

Spelisl features of immutation in inverted single-armature

iconverters with single splitting of poles. [zv.vys.ucheb.zav.;

elektromekhanika 8 nc.tzc94-701 | 165. (MIRA 18:8)

SHERSTORITOV, M.A., FOREL', S.I., TSAREVSKIY, B.V.

Methods of determining the rate of penetration of melts into capillary porous materials. Forosh. met. 5 no.8:50-54 Ag '65.

(MIRA 18:9)

1. U-al'skiy politeknnicheskiy institut imeni Kirova.

KHALILOV, A.Kh.; PARFEN: YEV, I.; AKCHURIN, B.S., kand. veterinarnykh nauk; ALPAROV, D.A., kand. biologicheskikh nauk; GAREYEV, M.S., mladshiy nauchnyy sotrudnik; SHERSTOV, S.V.

Use of tissue preparations. Veterinariia 38 no.1:25-26 Ja '61. (MIRA 15:4)

1. Sekretar: Charodinskogo rayonnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza Dagestanskoy SSR (for Khalilov).

2. Glavnyy veterinarnyy vrach Orzhitskogo rayona, Poltavskoy oblasti (for Parfen: yev).

3. Bashkirskaya nauchno-issledovatel skaya vetbaklaboratoriya (for Akchurin, Alparov, Gareyev).

4. Glavnyy veterinarnyy vrach Upravleniya myaso-molochnoy i rybnoy promyshlennosti Zaporozhskogo sovnarkhoza (for Sherstov).

(Tissue extracts) (Stock and stockbreeding)

SHELL FLYE, KIN Upsa/Culvia. A 12a. 7 Grains. .. or From : 12 1 or - Mal., No 15, 1 7, 48016 Aug. r : Clores Avra, K.H. : Make the Scientific Research I selected for Apric descri I.ct : Called Server Grain Selection : Telladin 71111 : pel. total account at a contribution in the account of Orig Dub 1957, IJ 5-3 A character of A character of Marketin with the Angled by the carbot of the characters of Marketin with the Light by the carbot of individual and and splin for. When variation: Makachanim 22%, Formatinen 200, Value meja 4, Foreca, i 17 . . Shoros that Oct maisons: a mosty 44, quick- a wring valueable 1708, second, quick- a wring. Earley: A provide Toy'l being Spring of : I proved Hestineys. -- V.D. Sorsluia. Card 1/1 -8 -

San and the san an	-	the Value A.S.S.R.	
	Developing spring rye into winter rye in the Yakut A.S.S.R. Agrobiologica no.3:378-384 My-Je '59. (MIRA 12:9)		
	1. Yakutskiy stva.	y nauchno-issledovatel'skiy institut sel'skogo khozyay-	
		(YakutiaRye breeding)	:
			i

SHERST'OVA, O.S.

Afferent impulsation in the sciatic nerve of rabbits in experimental inflammation in the gastrocnemius muscle. Fiziol. zhur. [Ukr.] 10 no.1:109-113 '64. (MIRA 17:8)

1. Kafedra normalinov fiziologii Kishinevskogo meditsinskogo instituta Moldavskoy SSR.

是中国国际企业的特别的人,但是大大大大大型,是是一种企业,并且是这个国际的企业的大型的企业,但是是是一种企业的企业的企业,并且是一种企业的企业的企业,并且是一种企

KOSTYLEV, S.A.; SHERSTYAK, B.N.

Electron diffraction study of the structure of sublimated ZnS and ZnS - Mn films. Kristallografiia 8 no.3:456-459 My-Je '63. (MIRA 16:11)

1. Dnepropetrovskiy gosudarstvennyy universitet.

5 (2) AUTHORS:

Reznik, B. Ye., Dlugach, R. Ye.,

SOV/157-2-5-6/31

Sherstyak, D. N.

TITLE:

The Kinetics of the Formation Reaction of the Rhodanide Complex of Molybdenum in the Presence of Copper Ions

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Khimiya i khimicheskaya

tekhnologiya, 1959, Vol 2, Nr 5, po 674-678 (USSR)

ABSTRACT:

The determination method of molyodenum (VI) can be completed by the introduction of copper ions (II), since the otherwise very slow reaction of the molybdenum by thio-urea in the presence of rhodanide (reaction 1) is accelerated by copper (Ref 1). The authors studied the kinetics of the reaction (1) in the presence of copper sulfate to use it in the determination of small quantities of copper. The reaction rate was recorded on the basis of the temporal variation in optical density of the solutions of the rhodanide-molyodenum complet. Diagrams of the results were drawn (Fig 1). The tangent of the angle of inclination between the straight line obtained and the abscissa axis shows the reaction rate. Figures 2 and 3 show the dependence of the mentioned tangent on the concentration of the copper and molybdenum ions. The dependence of the

Card 1/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

是一个大学的。1915年1915年,1915年1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年

The Kinetics of the Formation Reaction of the SOV/153-2-5-6/31 Rhodanide Complex of Molybdenum in the Presence of Copper Ions

reaction rate on the concentration of the thio-urea is also linear. This shows that the concentration of these substances follows a kinetic equation of 1st order (Ref 2). By comparison of the calculated rate constant k and the catalytic reaction coefficient 2, a considerable catalytic action of the copper ions on the reaction (1) is shown. The authors determined the catalytically detectable minimum copper quantity to be 1,8.10.6 mol/1. Figure 2 shows that the reaction rate of the copper concentration is proportional. The authors determined the copper concentration of the solution by using the gaging curve (Fig 2). Table 1 lists the results. To clarify the possibility of copper determination in aluminum alloys, the influence of foreign ions was studied. Table 2 shows that the ions Al3+, Mn2+ Zn^{2+} , Cd^{2+} , Ti^{3+} and $\operatorname{SiO}_3^{2-}$ increase the optical density of the solution to a certain extent, but do not change the reaction rate. Table 3 shows the results of the determination of copper on the background of large aluminum quantities. Figure 4 shows that also the iron ion (III) increases the optical density of

Card 2/3

The Kinetics of the Formation Reaction of the SOY/153-2-5-6/31 Rhodanide Complex of Molybdenum in the Presence of Copper Ions

the solution (Fig 6), Figure 5 confirms the slow reduction of the iron ions (III) by thio-urea. Therefore the optical density is, in the presence of iron, the sum of the colorings of the disturbing iron-rhodanide- and the molybdenum-rhodanidecomplex. There are 6 figures, 3 tables, and 4 Soviet

references.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet; Kafedra

analiticheskoy khimii (Dnepropetrovsk State University,

Chair of Analytical Chemistry)

SUBMITTED:

May 24, 1958

Card 3/3

ACC NR: AR6030495

SOURCE CODE: UR/0275/66/000/006/3014/B015

AUTHOR: Maronchuk, Yu. Ye; Sherstyakov, A. P.

TITLE: Formation of hexagonal phase in CdTe epitaxial layers

SOURCE: Ref. zn. Elektronika i yeye primeneniye, Abs. 6397

REF SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 20-21

TOPIC TAGS: crystal growing, semiconductor film, epitaxial growing

ABSTRACT: The production of CdTe epitaxial layers on (100)-spalls of salts and texturized layers (the (111)-plane of CdTe is perpendicular to the backing) on amorphous backings is described. Electron-diffraction studies revealed the presence of cubic and hexagonal phases. The hexagonal-phase concentration increases with the backing temperature, reaches maximum at 4000, and then falls off. At 3500, maximum orientation of layers on an amorphous backing occurs. The mechanism of formation of the hexagonal phase and texture in thin CdTe layers is discussed. The effect of the hexagonal phase and texture on the electrophysical properties of the layers is considered. Ye. M., A. Sh. [Translation of abstract]

SUB CODE: 11, CP

Card 1/1

UDC: 621.315.592.548.28:546.48124

THE PROPERTY OF THE PROPERTY O

ACC NR: AR6025743 SOURCE CODE: UR/0058/66/000/004/A071/A071

AUTHOR: Maronchuk, Yu. Ye.; Sherstyakov, A. P.

TITLE: On the process of formation of the hexagonal phase in epitaxial layers of cadmium telluride

SOURCE: Ref. zh. Fizika, Abs. 4A595

REF. SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok polupisyodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 20-21

TOPIC TAGS: epitaxial growing, cadmium telluride, phase transition, electron diffraction analysis, temperature dependence, semiconducting film

ABSTRACT: A technology is described for obtaining epitaxial layers of CdTe on (100) cleavage surfaces of halogens and on textured layers (with (111) plane of CdTe perpendicular to the substrate) on amorphous substrates. Electron-diffraction investigations point to the presence of cubic and hexagonal phases. With increasing substrate temperature, the concentration of the hexagonal phase increases, reaches a maximum at 400C, and then decreases. The orientation of the layers on the amorphous substrate is maximal at 350C. The mechanism of formation of the hexagonal phase and of the texture in thin layers of CdTe is discussed. [Translation of abstract].

SUB CODE: 20

Card 1/1 PL

日本では、「大学は大学の「いまかは 発光的な子をないない。」という。 「大学は、「大学は大学の「いまかは 発光的な子をないない。」	255 (\$145 A) \$11 4 1 2
L 9218-66 EWT(1)/EWT(m)/ETC/EWG(m)/T/EWP(t)/EWP(b) LJP(c) RDW/JD/JG/GG ACC NR: AR6000121 SOURCE CODE: UR/0058/65/000/008/E046/E046	
· · · · · · · · · · · · · · · · · · ·	
SOURCE: Ref. zh. Fizika, Abs. 8E343	
AUTHORS: Maronchuk, Yu. Ye.; Krivorotov, Ye. A.; Sherstyakov, A. P.	
ORG: none	
TITLE: On the processes of formation of single-crystal films of cadmium and mercury telluride	
CITED SOURCE: Sb. Vychisl. sistemy. Vyp. 15. Novosibirsk, 1965, 67-75	
TOPIC TAGS: single crystal growing, mercury, cadmium, telluride, polycrystalline film, temperature dependence	
TRANSIATION: The authors consider the processes of growing single-crystal layers of	
CdTe and HgTe, the influence of the composition of the vapor, of the temperature, and of the substrate parameters on the structure of the produced films. The presence of	
an excess of mercury vapor results in highly oriented single-crystal films of n-type	
with high carrier mobility $(6-8 \times 10^3 \text{ cm}^2/\text{v-sec})$. The films contained mutually oriented cubic $(a = 6.429 \text{ Å})$ and hexagonal phases $(a = 4.58 \text{ Å}, c = 7.46 \text{ Å})$. At low	
mercury pressures and at slow evaporation, polycrystalline films of HgTe of p-type	
were grown with low carrier mobility (5010 cm ² /v-sec) and very small crystalline	
grains. The thermodynamic calculations and the experimental results show that the single-crystal HgTe dissociates when heated in vacuum. A study was made of the in-	
fluence of the orientation of the substrate material on the orientation of the CdTe	
C1 2/0	
Card 1/2	
The state of the s	

L 9218-66 ACC NR: AR6000121	C	7
films. The presence of cubic and hexagonal phases was the fraction of the hexagonal phase decreased with ind It is proposed that the appearance of the hexagonal ph is due to the influence of the composition of the vapo grown layers. Yu. Dymshits.	creasing substrate temperature.	
SUB CODE: 20	·	
·		
Card 2/2		

ACC NRI AR6019914

SOURCE CODE: UR/0275/66/000/002/B018/B018

Comparation of the comparation o

AUTHOR: Maronchuk, Yu. Ye.; Krivorotov, Ye. A.; Sherstyakov, A. P.

TITLE: Processes involved in the formation of single crystal films of cadmium and

mercury telluride

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 2B132

REF SOURCE: Sb. Vychisl. sistemy. Vyp. 15. Novosibirsk, 1965, 67-75

COMPOUND

TOPIC TAGS: cadmium telluride, mercury, telluride, surface film, single crystal

growing

ABSTRACT: The processes involved in growing single crystal layers of CdTe and HgTe, the effect of vapor composition, temperature, and the parameters for the base on the structure of the films formed are reviewed. When there is an excess of mercury vapor what is obtained on the base is a highly oriented single crystal n-type film with a highly mobile carrier (6 to 8 x 103 cm²/volt-second). Mutually oriented cubic (a = 6.429A) and hexagonal phases (a = 4.58A, c = 7.46A) were present in the films. At low mercury pressures and with slow evaporation polycrystalline p-type HgTe films with carriers with little mobility (50 to 10 cm²/volt-second) and very small crystalline grains were grown. The thermodynamic calculation was made, and the experimental results showed that single crystals of HgTe disassociate upon

Card 1/2

UDC: 621.315.592:548.552:546.24'48/.49 .

being heated in a vacuum. The effect of the orientation and of the substance of which the base is made on orientation of the CdTe film was studied. The percentage of the hexagonal phases fell with reduction in base temperature. It is assumed that the hexagonal phase phenomenon in the HgTe and CdTe films is the result of the effect of the vapor composition on the structure of the layers grown. Yu. D. [Translation of abstract]

SUB CODE; 20

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

CIA-RDP86-00513R001549120012-6 "APPROVED FOR RELEASE: 07/13/2001

5/179/62/000/001/027/027 D194/D584

26.2120

Sherstyannikov, V.A. (Moscow)

AUTHOR: TITLE:

A visual method of studying gas flow

PERIODICAL: Anademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Mekhanika i mashinostroyeniye,

no.1, 1962, 178-179

In 1956 the author proposed the investigation of gas $T = \nabla T$: flow at high subsonic speeds by atomising coloured liquid in the gas (see author's certificate No.110820 of 7th December, 4957). Near the boundary surfaces of curved ducts there is considerable retardation of gas flow so that the atomised particles do not separate from the gas. The method was used to study the flow in turbine blades with various radial clearances using a rig for Both impulse and reaction static blown air tests on blading. type blading were used in the tests. The coloured liquid was injected into the flow by a nozzle 5 mm from the wall and 30 mm from the inlet edges of the blades. Various types of nozzle were tried to give uniform distribution of atomised liquid over the duct section and the best were those which gave a thin flat (and not a conical) spray. Photographs taken through the Card 1/2

S/096/63/000/003/005/010 E194/E455

AUTHOR:

Sherstyannikov, V.A., Candidate of Technical Sciences

TITLE:

Shrouding of gas turbine blading

PERIODICAL: Teploenergetika, no.3, 1963, 34-38

Tests to study the effects of shrouding the runner blading were made on four model turbines. Three were single-stage and differed in degree of expansion and in relative blade length. They were tested with and without shrouding and in one case with The fourth model turbine was twoglands outside the shrouding. stage and the shrouding was built on to the blade tips; tests were made with various clearances between adjacent tips, to study the influence of this clearance on vibration characteristics of the blading. In this turbine the runner blades were about half the width normally used. The model turbines were driven by air at a temperature of 110 to 130°C, and the power developed was absorbed by a hydraulic brake. With the given experimental conditions the efficiency of a turbine with shrouding and gland was up to 3.5% higher than that of the unshrouded ones and the flow was more uniform. Shrouding gives the best improvement in stages with Card 1/3

S/096/63/000/003/005/010 E194/E455

Shrouding of gas turbine blading

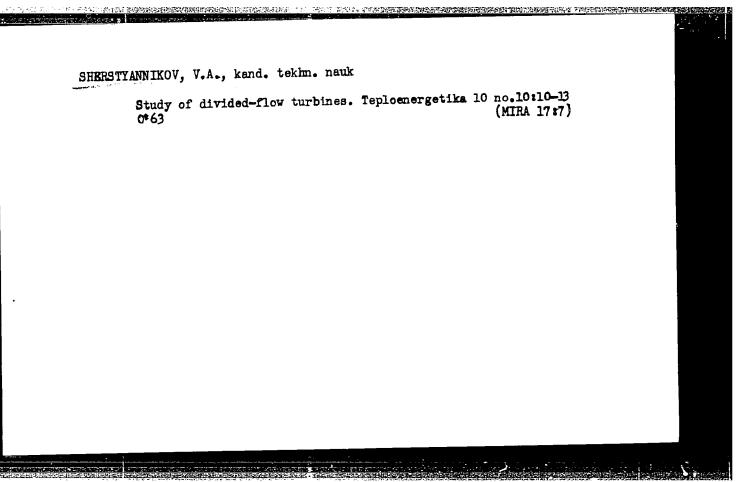
It was found that with shrouded blades relatively short blades. the optimum height-to-breadth ratio was about 3; increasing this ratio to 4 caused an efficiency reduction of about 2% (somewhat less than this for unshrouded blades). Vibration resonance curves were determined with strain gauges; shrouding was found greatly to reduce vibration stresses with all modes of vibration over the entire range of turbine speeds. If shrouding is built into the blade tip, the vibration properties of the blading depend very much on the clearance between adjacent blade tips, and when it is fairly large the main type of blade oscillation is first-mode With 0.5 mm clearance the shroud tips became workbending. hardened, and so had evidently been impacting. Vibration stresses are reduced if smaller clearances are used and in particular if the blades are welded together in bundles, as in the Roll's-Royce "Avon" engine. The damping properties of the shrouding used in the Pratt and Whitney J-57 engine are briefly discussed. Although the use of shrouding improves the vibration characteristics of blading, raises the efficiency and improves the flow structure beyond the runner, nevertheless it also reduces the static Card 2/3

Shrouding of gas turbine blading

S/096/63/000/003/005/010 E194/E455

strength of blades and so can only be used in lightly-loaded stages. There are 8 figures.

Card 3/3



AND IN THE STREET STREE

SHERSTYUK, A.

For a high degree of effectiveness for economic propagands. Vop.ekon. no.7:132-136 J1 '60. (MIRA 13:5)

1. Sekretar' Zaporozhskogo obkoma Kommunisticheskoy partii Ukrainy. (Zaporozh'ye Province--Economics--Study and teaching)

BIDULYA, P.N.; SHUL'TE, G.Yu.; PELIKH, V.N.; MLADOVA, A.A.; SHERSTYUK,
A.A.; MIROSHNICHENKO, L.S.

Nonmetallic inclusions in malleable cast iron. Lit. proizv. no.l:
25-27 Ja '61. (MIRA 14:1)

25-27 Ja '61. (MIRA 14 (Cast iron—Defects) (Nonmetallic materials)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

SHUL'TE, Yu.A.; SHERSTYUK, A.A.; KURBATOV, M.I.

Effect of phosphorus on the cold brittleness of high manganese steel. Lit.proizv. no.7:21-22 J1 164. (MIRA 18:4)

"APPROVED FOR RELEASE: 07/13/2001 CIA-RI

CIA-RDP86-00513R001549120012-6

L 56456-65 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) MJW/JD UR/0304/64/000/005/0032/0033 ACCESSION NR: AP5018807 As (Engineer); Shul'te, Yu. A. (Doctor of technical sciences); AUTHOR: Sherstynk. Kurbatov, M. I. (Candidate of technical sciences) Cold brittleness of high-manganese steel TITLE: SOURCE: Mashinostroyeniye, no. 5, 1964, 32-33 TOPIC TAGS: manganese steel, metal brittleness, cooling Abstract: The physical and mechanical properties of cast high-manganese steel at low temperatures have been studied insufficiently. Many instances of breakage of parts and units of machines made of high-manganese steel caused by its cold brittleness are known. For this reason, the properties of this steel at low temperatures and the influence of its composition and engineering factors on cold brittleness were studied. A series of samples for tensile and impact testing of one initial melt were tested in a range of temperatures of from *200 to -196 C. Ar each temperature, at least three samples were tested, in which cases, as a rule, the agreement of the data was satisfactory. The samples were cooled in a liquid nitrogen and alcohol mixture for 30 minutes. Toughness, ductility and tensile strength decreased commensurate with the lowering of temperature. 1/4 Card

			and the second of the second o		
174 67		الرائية المستخطيط الرائية المستخطيط المستخطيط المستخطيط المستخطيط المستخطيط المستخطيط المستخطيط المستخطيط المس المستخطيط المستخطيط ا	المراكب المطبعين بميان المسيير والأرار		
156-65 SSION NR: AP5018807				- 1 - 1 - 1	
:	imElwann	e on cold britt	leness. Stee	ls with	
Phosphorus has the grosphorus content of 0.034	Gatest Influence	highly suscepti	ble to cold b	rittle-	
sphorus content of 0.034 s. The cold brittleness	threehhold (50%	loss of proper	ties) of low-	phos-	
s. The cold brittleness brus steel was lowered to	-140°C as compa	red to -20°C fo	r steel of a	conven-	
orus steel was lowered to onal composition. This o	ccurs because as	the phosphorus	content in 8	teel	
onal composition. This or creases, the boundaries o	f austenite grai	ns are contamin	ated with inc	LUBIONS	
reases, the boundaries o the phosphoride eutectic	causing a marke	d drop in the m	ecuanical bro	hereres	4
the steel.			hl. therefor	e.	
the steel. Carbon lowers cold b	rittleness of a	steel considera	the analysis	limits	
rbon content should not e	xceed 1.3%. Fight	poreciable infl	uence.		
type GI3L steel and mile	, Lacto nate ne		calcium, sili	.con	
The influence of mod rconium, ferrotitanium, f	arroserium and t	their combination	ons on cold-br	ittleness	
rconium, ferrotitanium, i	GILOCEL FOR AND				
steel was studied. When the amount of a	luminum is incre	eased from 0.04	to 0.3%, duci	ility	
When the amount of a dimpact strength of the	stoel are decres	gged and cold bi	rittleness 18	corres-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
d impact strength of the ordingly increased, especi	ially when the co	ontent of alumi	UNW TR KLEAFS		

	• :				
2/4					-
		•			2.5
ITQ			· · · · · · · · · · · · · · · · · · ·	Comments of the size	311

L 56456-65 ACCESSION NR: AP5018807

Adding 0.25% silicon calcium (case 2) with 27% calcium have no effect on the properties of the steel.

The modification of silicon zirconium had no appreciable influence on the cold brittleness and properties of the steel.

Admixtures of ferrotitanium (0.1% Ti) refined the steel structure into finer grains and increased impact strength and ductility by 10-15% and corresponding increased cold brittleness.

The use of a complex modifier (0.1% al, 0.1% Casi, and 0.1% ferrocerium) had no significant effect on cold brittleness of the steel.

At the temperature of liquid nitrogen, steel GI3L becomes brittle independent of its composition. However, when this occurs, there is no transformation of austenite into martensite. Tests made at +20°C after cooling in nitrogen showed the samples to have the usual properties.

Thus, the way to increase the cold brittleness of cast steel GI3L is to lower the phosphorus content in it.

Castings of high-manganese steel, operating at low temperatures, should be made only from low-phosphorus steel with the use of low-phosphorus (up to 0.05%) grades of ferromanganese.

Orig. art. has 1 graph and 1 table.

Card 3/4

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6

6-65							*			
SION NEG	AP50188	07					Parker of Carpet Control	0		
ATION:	none		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					NOT MIT		
PTED: (00		,	ENCL:	00			MM, ID		
F SOV:	002	•		OTHER:	000		JPRS			
		•								
•										
		•								
•										
										k
484						. · ·				
4/4			and the second seco							
	TTED: (F SOV: 002	TTED: 00 F SOV: 002	TTED: 00 F SOV: 002	F SOV: OO2 OTHER:	TTED: 00 F SOV: 002 OTHER: 000	F SOV: 002 CTHER: 000	F SOV: CO2 FIGL: COO OTHER: COO JPRS	F SOV: 002 ENGL: 00 SUB CODE: MN, TD OTHER: 000 JPRS	TTED: 00 SUB CODE: NM, TD

SHULIFE. Yu.A., doktor takhn.nauk; PARASYUK, P.F., inzh.; SHERSTYUK, A.A., inzh.; MikdaYLOV, P.A., inzh.; KURBATOV, M.I., kand.takhn.nauk; BERKUN, M.N., inzh.
inzh.

Increasing the durability of high-manganese steel castings.
Mashinostroenie no.4157-58 Jl-Ag 165.

(MIRA 18:8)

KURRATOV, M.I., kand. tekh. nauk; RIDNYY, A.A., inzh.; MAKSIMENKO, V.D., inzh.; SHERSTYUK, A.A., inzh.; KOSHELEV, V.I., inzh.

Effect of smalladditions of boron on the properties of G13L steel.
Lit. proizv. no.9:34-35 o '65.

(MIRA 18:10)

EWT(m)/EWA(d)/T/EWP(t) LJP(c) JD/JG L 23081-66 UR/0128/65/000/009/0034/0035 SOURCE CODE: ACC NR. AP5029000 AUTHOR: Kurbatov, M. I. (Candidate of technical sciences); Ridnyy, A. A. (Engineer); Maksimenko, V. D. (Engineer); Sherstyuk, A. A. (Engineer); Koshelev, V. I. (Engineer) ORG: none TITLE: Effect of the addition of small amounts of boron on the properties of G12L manganese steel SOURCE: Liteynoye proizvodstvo, no. 9, 1965, 34-35 TOPIC TAGS: boron, nonmetallic inclusion, manganese steel, tractor / G13L manganese steel ABSTRACT: The effect of the addition of 0.0036-0.0252% B on the structure and mechanical, technological properties and operational qualities of cast crawler-tread links of Cl31 manganese steel is investigated. Ferroboron was added to the bottompour ladles (capacity 0.3 ton) directly prior to pouring into the molds. Boron greatly changes the properties of cast steel -- B-free steel has a dendritic structure whereas B-containing steel has a stone-like finegrained structure. As a result of metallographic examination and tensile and impact tests it is established that the contamination of the austenitic structure of the steel by residual carbides increases when the residual B content exceeds 0.0108%. Boron nitrides, being crystal-UDC: 669.15'74-194:669.781 Card 1/2

L 23081-66

ACC NR: AP5029000

lization nuclei, contribute to a more finegrained structure of the castings but if the B content is too high, owing to the decrease in its solubility, B, as a surface-active element, is displaced toward the grain boundaries where, evidently. its oxides, carbides and borides also are located. The mechanical properties of B--treated steel: $\sigma_{\rm h}$, δ and ψ , slightly increase if B content is not more than 0.0072% but sharply decrease if the B content exceeds this limit. These findings confirm that increasing the B content above the solubility limit of B in Fe leads to the formation of a large number of nonmetallic inclusions along grain boundaries and a sharp decrease in the mechanical properties of steel, as was besides also corroborated by the bending and wear resistance tests of crawler-tread links. Thus, in the shops of the tractor plants it is advisable to inoculate steel with B in order to obtain castings with a finegrained structure provided that the B content does not exceed 0.007%. Orig. art. has: 2 tables, 1 figure.

SUB CODE: 11, 13, 20/ SUBM DATE: none/ ORIG REF: 000/ OTH REF: 000

2/2 ULR

SHERSTYUK, Anatoliy Fedorovich; VERBITSKIY, G., red.; DANILINA, A., tekhn.red.

[People's Bulgaria is blooming] Rastsvetaet nerodnaia Bolgariia.

Moskva, Gos.izd-vo polit.lit-ry, 1959. 110 p. (MIRA 12:9)

(Bulgaria--Politics and government)

(Bulgaria--Economic conditions)

HEROS-COMPENSACIONES ACCUSTOS DE LA COLOCIO DE LA SUL SENSACIONA DE COMPENSACIONES DE COMPENSACIONES DE LA COLOCIO DE LA COLOCACIONA DEL COLOCACIONA DE LA COLOCACIONA DE LA COLOCACIONA DE LA COLOCACIONA DEL COLOCACIONA DE LA COLOCACIONA DE LA COLOCACIONA DEL COLOCAC

15-57-4-4631

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,

pp 92-93 (USSR)

AUTHOR:

Sherstyuk, A. I.

TITLE:

Fluorite and Stilbite From the Rezh Region (Flyuorit i

desmin iz Rezhevskogo rayona)

PERIODICAL:

Tr. Sverdl. gorn. in-ta, 1956, Nr 26, pp 104-107.

AFS TRACT:

In the Rezh region fluorite-bearing quartz-muscovite and plagioclase veins with epidote-phlogopite and fluorite-muscovite pyritized borders occur near granites, in gabbro-amphibolites, amphibolites, and amphibolite schists. The fluorite forms thin veinlets of lilac color in micaceous borders and also formless accumulations of deep violet and rose colors. Bands of deep-violet fluorite occur immediately next to the muscovite borders. Toward the center of the vein they give way to light-violet, rose, colorless, and milky-white bands. Along the eastern contact of the granites

Card 1/2

in the Rezh region pegmatite veins are found that

SHERSTYUK, A.I.

Effect of isomorphous admixtures in beryl on its refractive index. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.2:51-56 '58.

(MIRA 12:2)

1. Sverdlovskiy gornyy institut, kafedra mineralogii.

(Beryl) (Mineralogy, Determinative) (Refractive index)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

SHERSTYUK, A.I.

Metasomatic changes in basic and ultrabasic rocks near the high-temperature pneumatolith-hydrothermal veins. Izv.vys. ucheb.zav;geol. i razv. 4 no.8:43-51 Ag '61. (MIRA 14:9)

1. Sverdlovskiy gornyy institut imeni V.V. Vakhrusheva. (Ural Mountain region--Metasomatism)

SHERSTYUK, A.I.

Amazonite and fluorite from the Murzinskiy granite massif.
Trudy Gor.-geol.inst. UFAN SSSR no.56:81-83 '61. (MIRA 15:7)
(Rezh District-Amazonstone)
(Rezh District-Fluorite)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120012-6"

ACCESSION NR: AT4019300

8/0000/63/003/001/0119/0122

AUTHOR: Tudorovskaya, N. A.; Sherstyuk, A. I.

TITLE: Study of the process of catalyzed crystallization by the method of differential thermal analysis

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1. Moscow, Izd-vo AN SSSR, 1963, 119-122

TOPIC TAGS: thermal analysis, glass, glass crystallization, petalite, spodumene, catalyzed crystallization, titanium dioxide, alumina silicate

ABSTRACT: The thermal effect of crystallization was investigated in glasses of the system Li₂O-Al₂O₃-SiO₂ having the composition of petalite or spodumene with admixtures of TiO₂ and other oxides in amounts less than 10% by weight. X-ray and mineralogical analysis showed that in glass having a composition close to spodumene, the first thermal effect is produced by the crystallization of the high-temperature spodumene. The presence of the second high-temperature effect shows that a second, more refractory

Card

1/2

S/0000/63/003/001/0115/0119

ACCESSION NR: AT4019299

AUTHOR: Vlasov, A.G.; Sherstyuk, A. L.

TITLE: Theoretical investigation of the possible use of the method of differential thermal analysis for the quantitative study of the crystallization process

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3. no. 1. Moscow, izd-yo AN SSSR, 1963, 116-119

TOPIC TAGS: crystallization, thermal analysis, thermogram, glass

ABSTRACT: The method of differential thermal analysis used hitherto is unsuitable for the accurate determination of the amount of crystallized phase, which is absolutely essential for the study of the nature and dynamics of crystallization. For this purpose, new experimental methods are suggested and formulas are derived. The logarithm of the temperature difference θ is plotted against time in typical curves obtained from the thermograms. The study of these diagrams showing the relationship between θ and t makes it possible to determine all the thermal characteristics of the test sample. Another very important value

Card 1/2

ACCESSION NR: AT4019299

is 6, the specific thermal effect of the reaction, which is proportional to the amount of noncrystalline phase. By comparing the 6 values obtained for different substances, the degree of crystallization of the material in relation to its preliminary treatment can be established. Sincreasing the rate of heating, t_{max} becomes less dependent on \propto (reaction rate), thus decreasing the accuracy of the estimation of \propto by the time of maximum deviation. In practice, the accuracy of the values \propto and 6 is \pm 10%. The accuracy of the calculation can be improved considerably by a more accurate solution of the thermal conductivity equation with the given limiting conditions and nonstationary heat sources uniformly distributed inside the sample. The function of the heat sources F (t, T) will also have some independent parameters, which must be determined experimentally. Orig. art. has: 1 figure and 14 formulas.

ASSOCIATION: none

SUBMITTED: 17May63

DATE ACQ: 21Nov63

ENCL: 00

SUB CODE: MT, GC

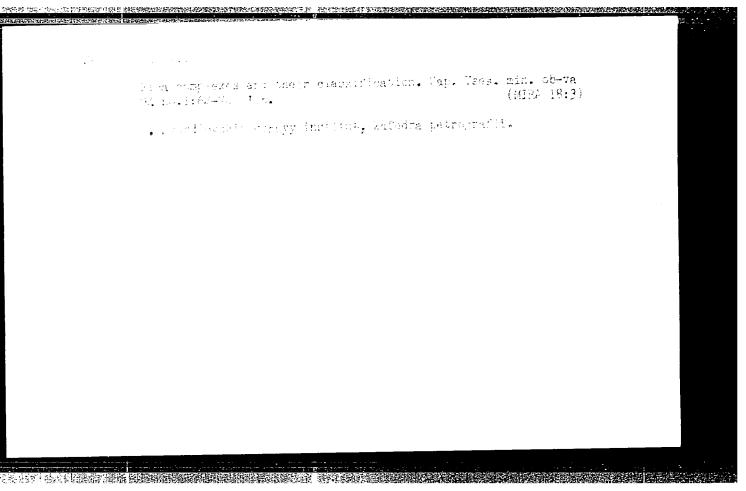
NO REF SOV: 000

OTHER: 000

Card 2/2

TUDOROVSKAYA, N.A.; SHERDYUK, A.I.

Soudying the procest of catalyzed crystallization by the method of differential thermal analysis. Stekloobr. sost. no.1:119-122 163. (MIRA 17:10)



SHERSTYUK, A. N.

"Construction of the Characteristics of Multistage Axial and Centrifugal Compressors According to the Stage Characteristics".

Kotloturbostroveniye, No. 1, ppll-16, 1953

The method suggested by the suthor is based on the following two assumptions: 1. The abstract characteristics — dependence of the coefficients of stress and efficiency upon the consumption coefficient — are indentival for all stages. 2. The relative temperature change before any stage at all points of the characteristic is less than 0.15. In accordance with the given abstract characteristics of a stage, an auxiliary conditional characteristic is constructed in logarithmic coordinates. This makes it possible to determine the efficiency coefficient for various peripheral velocitied of the rotor. (RZhMekh, No 8, 1955)

SO: Sum No 812, 6 Feb 1956

